

Amendment to the Claims

5/12/12
A1

1. (Original) A corrugated container body comprising:
 an outer tube having at least four outer side panels foldably connected to each other, at least two of the outer side panels being foldably connected to each other along an outer corner portion that includes a first score line (offset) from a second score line by a first offset distance; and
 an inner tube having at least four inner side panels foldably connected to each other, at least two of the inner side panels being foldably connected to each other along an inner corner portion that includes a third score line offset from a fourth score line by a second (offset distance) the inner tube being sleeved within the outer tube with each of the inner side panels being directly adjacent to an outer side panel in one-to-one correspondence.

Fig 1

2. (Original) The corrugated container body of claim 1 wherein the outer tube has eight outer side panels.

3. (Original) The corrugated container body of claim 1 wherein the first offset distance is greater than the second offset distance.

4. (Original) The corrugated container body of claim 1 wherein each of the at least four outer side panels include first and second plies and each of the at least four inner side panels include third, fourth, and fifth plies.

5. (Original) The corrugated container body of claim 4 wherein the first, second, third, fourth and fifth plies are double-wall corrugated paperboard.

6. (Original) The corrugated body of claim 1 wherein the outer tube includes a top portion and a bottom portion and further includes at least four bottom flaps foldably

extending from adjacent outer side panels in one-to-one correspondence with the outer side panels. *

7. (Original) The corrugated container body of claim 6 wherein each of the at least four outer side panels includes first and second plies and the at least four bottom flaps foldably extend from the first ply, the first ply being outboard of the second ply.

8. (Original) The corrugated container body of claim 1 wherein each of the at least four outer side panels has an outer side panel thickness and each of the at least four inner side panels has an inner side panel thickness, wherein the first offset distance is determined based on the outer side panel thickness and the inner side panel thickness, and wherein the second offset distance is determined based on the inner side panel thickness.

9. (Original) The corrugated container body of claim 8 wherein the first offset distance is at least approximately equal to $0.30 \times (\text{thickness of the outer tube}) + 2 \times (\text{thickness of the inner tube})$ and the second offset distance is at least approximately equal to $1.5 \times (\text{thickness of the inner tube})$.

10. (Original) The corrugated container body of claim 1 wherein each of the at least four outer side panels includes first and second plies and each of the at least four inner side panels includes third, fourth, and fifth plies, wherein the first, second, third, fourth and fifth plies are double-wall corrugated paperboard, and wherein the first offset distance is between 2.0 and 3.0 inches and the second offset distance is between 1.25 and 2.25 inches.

11. (Original) The corrugated container body of claim 10 wherein the first offset distance is between 2.3 and 2.7 inches and the second offset distance is between 1.5 and 2.0 inches.

12. (Original) The corrugated container body of claim 1 wherein the inner tube has an inner tube inner surface and an inner tube outer surface and the outer tube has an outer tube inner surface and an outer tube outer surface, and wherein the first and second score lines are formed on the outer tube inner surface and the third and fourth score lines are formed on the inner tube inner surface.

13. (Original) The corrugated container body of claim 1 wherein the inner tube has an inner tube inner surface and an inner tube outer surface and the outer tube has an outer tube inner surface and an outer tube outer surface, and wherein the first and second score lines are formed on the outer tube outer surface and the third and fourth score lines are formed on the inner tube outer surface.

14. (Original) A foldable corrugated container structure comprising:

an outer laminate forming at least a first outer panel and a second outer panel, the outer laminate having a first score line offset from a second score line by a first offset distance, the first and second score lines being positioned between the first and second outer panels; and
an inner laminate forming at least a first inner panel and a second inner panel, the inner laminate having a third score line offset from a fourth score line by a second offset distance, the third and fourth score lines being positioned between the first and second inner panels, wherein the inner laminate is at least partially bonded to the outer laminate with the first inner panel positioned adjacent to the first outer panel to form a first wall and the second inner panel positioned adjacent to the second outer panel to form a second wall, wherein the first and second score lines of the outer laminate and the third and fourth score lines of the inner laminate together define a corner portion, and wherein the first and second walls are foldable toward each other about the corner portion.

15. (Original) The corrugated container structure of claim 14 wherein the first offset distance is greater than the second offset distance.

16. (Original) The corrugated container structure of claim 14 wherein the outer laminate includes first and second plies and the inner laminate includes third, fourth and fifth plies.

17. (Original) The corrugated container structure of claim 16 wherein the first, second, third, fourth and fifth plies are double-wall corrugated paperboard.

18. (Original) The corrugated container structure of claim 14 wherein the outer laminate includes first and second plies and the inner laminate includes third and fourth plies, the first, second, third and fourth plies being triple-wall corrugated paperboard.

19. (Original) The corrugated container structure of claim 14 wherein the outer laminate has an outer laminate thickness and the inner laminate has an inner laminate thickness, wherein the first offset distance is determined based on the outer laminate thickness and the inner laminate thickness and the second offset distance is determined based on the inner laminate thickness.

20. (Original) The corrugated container structure of claim 19 wherein the first offset distance is at least approximately equal to $0.30 \times (\text{thickness of the outer laminate}) + 2 \times (\text{thickness of the inner laminate})$ and the second offset distance is at least approximately equal to $1.5 \times (\text{thickness of the inner laminate})$.

21. (Original) The corrugated container structure of claim 14 wherein the inner laminate has an inner laminate inner surface and an inner laminate outer surface and the outer laminate has an outer laminate inner surface and an outer laminate outer surface, and wherein the first and second score lines are formed on the outer laminate inner surface and the third and fourth score lines are formed on the inner laminate inner surface.

22. (Original) The corrugated container structure of claim 14 wherein the inner laminate has an inner laminate inner surface and an inner laminate outer surface and

the outer laminate has an outer laminate inner surface and an outer laminate outer surface, and wherein the first and second score lines are formed on the outer laminate outer surface and the third and fourth score lines are formed on the inner laminate outer surface.

Claims 23 – 72 have been canceled.

73. (Original) A foldable multi-wall corrugated container structure comprising:
a laminate forming a plurality of wall panels including at least a first panel and a second panel, the laminate having a first score line offset from a second score line by an offset distance, the first and second score lines being positioned between the first and second panels to form a corner portion between the first and second panels, wherein the first and second panels are foldable toward each other about the corner portion to form a multi-wall container.

74. (Original) The corrugated container structure of claim 73 wherein the laminate includes first and second plies.

75. (Original) The corrugated container structure of claim 73 wherein the first and second plies are double-wall corrugated paperboard.

76. (Original) The corrugated container structure of claim 73 wherein the laminate has a laminate thickness and the offset distance is determined based on the laminate thickness.

77. (Original) The corrugated container structure of claim 73 wherein the laminate has a laminate thickness and the offset distance is at least approximately equal to twice the laminate thickness.

78. (Original) The corrugated container structure of claim 73 wherein the laminate has an inner surface and an outer surface and the first and second score lines are formed on the inner surface.

79. (Original) A method for producing a foldable corrugated container structure, the method comprising:

providing a laminate;

scoring the laminate to produce a first score line; and

scoring the laminate to produce a second score line offset from the first score line, the first and second score lines defining a first panel and a second panel of the laminate, wherein the first and second score lines together define a corner portion, and wherein the first and second panels are foldable toward each other about the corner portion.

80. (Original) The method of claim 79 wherein providing the laminate includes providing an outer laminate, wherein scoring the laminate to produce the first and second score lines includes scoring the outer laminate to produce the second score line offset from the first score line by a first offset distance, the first and second score lines defining a first outer panel and a second outer panel of the outer laminate, and wherein the method further comprises:

providing an inner laminate;

scoring the inner laminate to produce a third score line;

scoring the inner laminate to produce a fourth score line offset from the third score line by a second offset distance, the third and fourth score lines defining a first inner panel and a second inner panel of the inner laminate;

positioning the first inner panel of the inner laminate adjacent to the first outer panel of the outer laminate to form a first wall; and

positioning the second inner panel of the inner laminate adjacent to the second outer panel of the outer laminate to form a second wall, wherein the first and second score lines of the outer laminate and the third and fourth score lines of the inner laminate together define the corner portion, and

wherein the first and second walls are foldable toward each other about the corner portion.

Cont
A1
81. (Original) The method of claim 80 wherein scoring the inner laminate includes scoring the inner laminate to produce the fourth score line offset from the third score line by the second offset distance, the second offset distance being less than the first offset distance.

82. (Original) The method of claim 80 wherein providing the outer laminate includes providing the outer laminate having first and second plies, and wherein providing the inner laminate includes providing the inner laminate having third, fourth and fifth plies.

83. (Original) The method of claim 80 wherein providing the outer laminate includes providing the outer laminate having first and second plies of double-wall corrugated paperboard, and wherein providing the inner laminate includes providing the inner laminate having third, fourth and fifth plies of double-wall corrugated paperboard.

84. (Original) The method of claim 80 wherein providing the outer laminate includes providing the outer laminate having an outer laminate inner surface and an outer laminate outer surface, wherein scoring the outer laminate includes scoring the outer laminate to produce the first and second score lines on the outer laminate inner surface, wherein providing the inner laminate includes providing the inner laminate having an inner laminate inner surface and an inner laminate outer surface, and wherein scoring the inner laminate includes scoring the inner laminate to produce the third and fourth score lines on the inner laminate inner surface.

Claims 85 – 98 have been canceled.